



COPY

Attorney Docket No. 11429/13:2

DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled DIAPHRAGM VALVE FOR HIGH-TEMPERATURE PRECURSOR SUPPLY IN ATOMIC LAYER DEPOSITION, the specification of which

- ☐ is attached hereto.
- ☒ was filed on June 26, 2003 as United States Patent Application No. 10/609,136.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

Direct all telephone calls to Kassim M. Ferris at (503) 224-3380. Address all correspondence to customer number 3528:

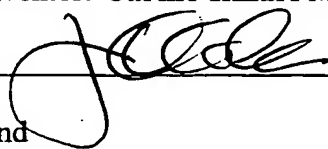
STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, Oregon 97204-1268

I understand that execution of this declaration is required by the patent laws and that this document does not create any attorney-client relationship between me and any of the attorneys of Stoel Rives LLP.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

COPY

Full name of first joint inventor: **Jarmo Ilmari Maula**

Inventor's signature: 

28 OCT 2003

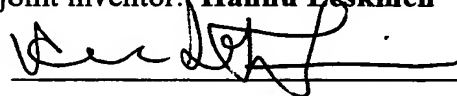
Date

Residence: Espoo, Finland

Citizenship: Finland

Postal Address: Reunaniitty 3 O, 02200 Espoo, Finland

Full name of second joint inventor: **Hannu Leskinen**

Inventor's signature: 

30 OCT 2003

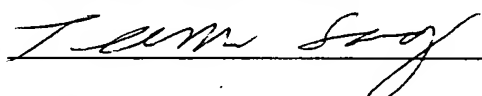
Date

Residence: Jaakkimantie 24 H 69, 02140 Espoo, Finland

Citizenship: Finland

Postal Address: Jaakkimantie 24 H 69, 02140 Espoo, Finland

Full name of third joint inventor: **Teemu Lang**

Inventor's signature: 

30 OCT 2003

Date

Residence: Helsinki, Finland

Citizenship: Finland

Postal Address: Tarkk'ampujankatu 2 B A11, 00140 Helsinki, Finland

Full name of fourth joint inventor: **Pekka Kuosmanen**

Inventor's signature: 

30 OCT 2003

Date

Residence: Espoo, Finland

Citizenship: Finland

Postal Address: Päivänkajontie 8 B 18, 02210 Espoo, Finland

COPY

Full name of fifth joint inventor: **Kari Härkönen**

Inventor's signature: Kari Härkönen

30 OCTOBER 2003

Date

Residence: Kauniainen, Finland

Citizenship: Finland

Postal Address: Asematie 27 A, 02700 Kauniainen, Finland

Full name of sixth joint inventor: **Bradley J. Aitchison**

Inventor's signature: _____

_____ Date

Residence: Eugene, Oregon

Citizenship: United States

Postal Address: 5501 Jeffrey Way, Eugene, Oregon 97402



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Attorney Docket No. 11429/13:2

DECLARATION FOR PATENT APPLICATION

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I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled DIAPHRAGM VALVE FOR HIGH-TEMPERATURE PRECURSOR SUPPLY IN ATOMIC LAYER DEPOSITION, the specification of which

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COPY

Full name of first joint inventor: **Jarmo Ilmari Maula**

Inventor's signature: _____

Date

Residence: Espoo, Finland

Citizenship: Finland

Postal Address: Reunaniitty 3 O, 02200 Espoo, Finland

Full name of second joint inventor: **Hannu Leskinen**

Inventor's signature: _____

Date

Residence: Jaakkimantie 24 H 69, 02140 Espoo, Finland

Citizenship: Finland

Postal Address: Jaakkimantie 24 H 69, 02140 Espoo, Finland

Full name of third joint inventor: **Teemu Lang**

Inventor's signature: _____

Date

Residence: Helsinki, Finland

Citizenship: Finland

Postal Address: Tarkk'ampujankatu 2 B A11, 00140 Helsinki, Finland

Full name of fourth joint inventor: **Pekka Kuosmanen**

Inventor's signature: _____

Date

Residence: Espoo, Finland

Citizenship: Finland

Postal Address: Päivänkajontie 8 B 18, 02210 Espoo, Finland

COPY

Full name of fifth joint inventor: **Kari Härkönen**

Inventor's signature: _____

Date

Residence: Kauniainen, Finland

Citizenship: Finland

Postal Address: Asematie 27 A, 02700 Kauniainen, Finland

Full name of sixth joint inventor: **Bradley J. Aitchison**

Inventor's signature: Bradley J. Aitchison

10/29/03

Date

Residence: Eugene, Oregon

Citizenship: United States

Postal Address: 5501 Jeffrey Way, Eugene, Oregon 97402



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Jarmo Ilmari Maula, Hannu Leskinen, Teemu Lang, Pekka Kuosmanen, Kari Härkönen, and Bradley J. Aitchison

Application No. 10/609,136

Filed: June 26, 2003

For: **DIAPHRAGM VALVE FOR HIGH-TEMPERATURE
PRECURSOR SUPPLY IN ATOMIC LAYER
DEPOSITION**

Attorney Docket No. 11429/13:2

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE
INTEREST (REVOCATION OF PRIOR POWERS)**

TO THE COMMISSIONER FOR PATENTS:

Planar Systems, Inc., assignee of the entire interest of the above-identified patent application, hereby revokes all powers of attorney previously given in the above-identified application and appoints the practitioners of Stoel Rives LLP, USPTO Customer No. **3528**, as its attorneys and agents, with full power of substitution and revocation, to prosecute and transact all business connected therewith in the U.S. Patent and Trademark Office, and to do all things necessary before any competent International Authorities in connection with any corresponding international patent application(s).

Please change the correspondence address for the above-identified application to the address associated with USPTO Customer No. **3528**:

STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, Oregon 97204-1268

Direct all telephone calls to Kassim M. Ferris at (503) 224-3380.

Statement Under 37 CFR§3.73(b): Planar Systems, Inc. states that it is assignee of the entire right, title, and interest in the application identified above by virtue of document(s) establishing a chain of title from the inventor(s) to the assignee, which:

- ☐ is/are filed for recordation herewith;
☐ was/were recorded at Reel _____, Frame _____; or
☒ has/have been sent for recordation under separate cover, copy attached herewith.

The undersigned is empowered to sign this document on behalf of the assignee.

Planar Systems, Inc.

By Christopher N. King
Christopher N. King,
Executive Vice President & CTO

Date: October 30, 2003



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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

**Jarma Ilmari Maula, Hannu Leskinen, Teemu
Lang, Pekka Kuosmanen, Kari Härkönen, and
Bradley J. Aitchison**

Confirmation No. 6735

Application No. 10/609,136

Filed: June 26, 2003

For: **DIAPHRAGM VALVE FOR HIGH-
TEMPERATURE PRECURSOR
SUPPLY IN ATOMIC LAYER
DEPOSITION**

Group Art Unit:

Examiner:

Date: November 14, 2003

RECORDATION COVER LETTER

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS:

1. Name of conveying party(ies):
Jarmo Ilmari Maula
Hannu Leskinen
Teemu Lang
Pekka Kuosmanen
Kari Härkönen
Bradley J. Aitchison
Execution Date:
October 28, 2003
October 30, 2003
October 30, 2003
October 30, 2003
October 30, 2003
October 28, 2003
2. Name and address of receiving party(ies):
Planar Systems, Inc.
1195 NW Compton Drive
Beaverton, Oregon 97006
3. Nature of conveyance:
☒ Assignment
☐ Security Agreement
☐ Merger
☐ Change of Name
☐ Other: _____
4. ☒ Application No.: 10/609,136
☐ This assignment is being filed concurrently with a new application.
The execution date of the application is _____.

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5. Please direct all correspondence concerning this document to Kassim M. Ferris, at the following address:

Stoel Rives LLP
900 SW Fifth Avenue, Suite 2600
Portland, Oregon 97204-1268

6. Total number patents or applications involved: one.

7. Total fee: \$40.00.

- ☒ A check for \$40.00 in payment of the assignment recording fee is enclosed.
☐ The \$40.00 fee for recording this assignment is included in the \$_____ check submitted in payment of the total fee.

8. ☐ Please charge our Deposit Account No. 19-4455 in the amount of \$_____.
☒ The Commissioner is hereby authorized to charge any additional fees which may be required in connection with filing of these papers, or credit overpayment, to Account No. 19-4455.

9. The information contained on this transmittal letter is true and correct to the best of the knowledge and belief of the person signing below, and any attached copy is a true copy of an original document.

Respectfully submitted,

Planar Systems, Inc.

By



Kassim M. Ferris

Registration No. 39,974

Number of pages comprising the conveyance, cover letter, and any attachments: 6

STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, Oregon 97204-1268
Telephone: (503) 224-3380
Facsimile: (503) 220-2480
Attorney Docket No.: 11429/13:2

ASSIGNMENT

WHEREAS, we, Jarmo Ilmari Maula, of Espoo, Finland, Hannu Leskinen, of Espoo, Finland, Teemu Lang, of Helsinki, Finland, Pekka Kuosmanen, of Espoo, Finland, Kari Härkönen, of Kauniainen, Finland, and Bradley J. Aitchison, of Eugene, Oregon, have made inventions described in a United States patent application entitled DIAPHRAGM VALVE FOR HIGH-TEMPERATURE PRECURSOR SUPPLY IN ATOMIC LAYER DEPOSITION, filed June 26, 2003 and allotted Application No. 10/609,136.

WHEREAS, Planar Systems, Inc., an Oregon corporation, having a place of business at 1195 NW Compton Drive, Beaverton, Oregon, 97006, USA, is desirous of acquiring an interest therein:

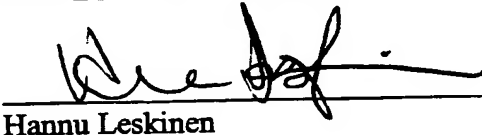
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Jarmo Ilmari Maula, Hannu Leskinen, Teemu Lang, Pekka Kuosmanen, Kari Härkönen and Bradley J. Aitchison, hereby sell, assign, and transfer to Planar Systems, Inc. the full and exclusive right, title, and interest in and to said inventions, said patent application, and any and all patent rights and letters patent for said inventions in the United States of America and elsewhere throughout the world, including provisional rights, foreign patent priority rights, and the right to apply for patents in foreign countries in our names or in the name of Planar Systems, Inc., and further including all divisions and continuations of said application and of any foreign patent applications and all reissues and extensions of patent rights and letters patent for said inventions, all to be held and enjoyed by Planar Systems, Inc., for its own use and benefit, and by its successors and assigns for their own use and benefit, for the full duration of the terms for which patent rights and letters patent may be granted in this or any foreign country, and covenant that we have full right so to do, and agree that we will communicate to Planar Systems, Inc., and its successors and assigns, any facts known to us respecting said inventions, and testify in any legal proceeding, sign all lawful papers, execute all lawful divisional, continuation, and reissue applications, make all rightful declarations or oaths, and do everything lawfully possible to aid Planar Systems, Inc., and its successors and assigns, to obtain and enforce proper patent protection for said inventions in the United States of America and elsewhere throughout the world.

COPY

Executed at ESPOO, Finland, this 28th day of OCTOBER, 2003.


Jarmo Ilmari Maula

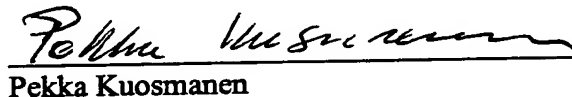
Executed at Espoo, Finland, this 30 day of Oct, 2003.


Hannu Leskinen

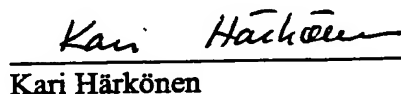
Executed at Espoo, Finland, this 30th day of October, 2003.


Teemu Lang

Executed at ESPOO, Finland, this 30TH day of OCTOBER 2003.


Pekka Kuosmanen

Executed at ESPOO, Finland, this 30 day of OCTOBER, 2003.


Kari Härkönen

Executed at _____, Oregon, this _____ day of _____, 2003.

Bradley J. Aitchison

STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, OR 97204-1268
Telephone: (503) 224-3380
Facsimile: (503) 220-2480
Attorney Docket No.: 11429/13:2

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ASSIGNMENT

WHEREAS, we, Jarmo Ilmari Maula, of Espoo, Finland, Hannu Leskinen, of Espoo, Finland, Teemu Lang, of Helsinki, Finland, Pekka Kuosmanen, of Espoo, Finland, Kari Härkönen, of Kauniainen, Finland, and Bradley J. Aitchison, of Eugene, Oregon, have made inventions described in a United States patent application entitled DIAPHRAGM VALVE FOR HIGH-TEMPERATURE PRECURSOR SUPPLY IN ATOMIC LAYER DEPOSITION, filed June 26, 2003 and allotted Application No. 10/609,136.

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Jarmo Ilmari Maula, Hannu Leskinen, Teemu Lang, Pekka Kuosmanen, Kari Härkönen and Bradley J. Aitchison, hereby sell, assign, and transfer to Planar Systems, Inc. the full and exclusive right, title, and interest in and to said inventions, said patent application, and any and all patent rights and letters patent for said inventions in the United States of America and elsewhere throughout the world, including provisional rights, foreign patent priority rights, and the right to apply for patents in foreign countries in our names or in the name of Planar Systems, Inc., and further including all divisions and continuations of said application and of any foreign patent applications and all reissues and extensions of patent rights and letters patent for said inventions, all to be held and enjoyed by Planar Systems, Inc., for its own use and benefit, and by its successors and assigns for their own use and benefit, for the full duration of the terms for which patent rights and letters patent may be granted in this or any foreign country, and covenant that we have full right so to do, and agree that we will communicate to Planar Systems, Inc., and its successors and assigns, any facts known to us respecting said inventions, and testify in any legal proceeding, sign all lawful papers, execute all lawful divisional, continuation, and reissue applications, make all rightful declarations or oaths, and do everything lawfully possible to aid Planar Systems, Inc., and its successors and assigns, to obtain and enforce proper patent protection for said inventions in the United States of America and elsewhere throughout the world.

COPY

Executed at _____, Finland, this _____ day of _____, 2003.

Jarmo Ilmari Maula

Executed at _____, Finland, this _____ day of _____, 2003.

Hannu Leskinen

Executed at _____, Finland, this _____ day of _____, 2003.

Teemu Lang

Executed at _____, Finland, this _____ day of _____, 2003.

Pekka Kuosmanen

Executed at _____, Finland, this _____ day of _____, 2003.

Kari Härkönen

Executed at Eugene, Oregon, this 28th day of October, 2003.

Bradley J. Aitchison
Bradley J. Aitchison

STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, OR 97204-1268
Telephone: (503) 224-3380
Facsimile: (503) 220-2480
Attorney Docket No.: 11429/13:2